This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

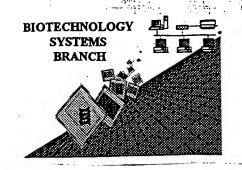
Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- X ILLEGIBLE TEXT
 - SKEWED/SLANTED IMAGES
 - COLORED PHOTOS
 - BLACK OR VERY BLACK AND WHITE DARK PHOTOS
 - GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

RAW-SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/449817

Source:

1652

Date Processed by STIC:

2/17/2000

RECEIVED

JUL 28 2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

TECH CENTER 1600/2009

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October-1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/449, 817

ATTN:	NEW RULES CASES: PI	LEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE				
1	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it.				
		Please adjust your right margin to .3, as this will prevent "wrapping".				
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line.				
	• •	This may occur if your file was retrieved in a word processor after creating it.				
		Please adjust your right margin to .3, as this will prevent "wrapping".				
3	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.				
4	Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers. TECH CENTER 1600/2900				
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.				
J	Non-Ason	Please ensure your subsequent submission is saved in ASCII text so that it can be processed.				
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.				
		As per the rules, each n or Xaa can only represent a single residue.				
		Please present the maximum number of each residue having variable length and				
		indicate in the (ix) feature section that some may be missing.				
7	Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid				
· —	ratorian von 2.0 bag	sequence(s) Normally, Patentin would automatically generate this section from the				
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section				
		to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>				
		sections for Artificial or Unknown sequences.				
8 8	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:				
	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:				
		(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")				
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:				
		This sequence is intentionally skipped				
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).				
9	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.				
	(NEW RULES)	<210> sequence id number				
		<400> sequence id number				
		000				
10	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in the Sequence Listing.				
	(NEW RULES)	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.				
1	(,	In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.				
11 V	Use of <213>Organism	Sequence(s) are missing this mandatory field or its response.				
·· —	(NEW RULES)	are mading the material of the response				
	(
12	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.				
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"				
	\rightarrow (Please explain source of genetic material in <220> to <223> section.				
		(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)				
12	Detections of Olivers	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted				
13	PatentIn ver. 2.0 "bug"	file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).				

Instead, please use "File Manager" or any other means to copy file to floppy disk.

1652

```
TIME: 11:26:30
                                      PATENT APPLICATION: US/09/449,817
                                      Input Set : A:\Seqidt-1.txt
                                                                                                                                                                    Does Not Comply
                                      Output Set: N:\CRF3\07172000\I449817.raw
                                                                                                                                                         Corrected Diskette Needed
          3 <110> APPLICANT: STEINER, MITCHELL; RINALDY, AUGUSTINE; AND MENON, REMA
          5 <120> TITLE OF INVENTION: AN ISOLATED NUCLEIC ACID ENCODING P-HYDE
                         PROTEIN AND METHODS OF INDUCING SUSCEPTIBILITY
                         TO INDUCTION OF CELL DEATH IN CANCER
           9 <130> FILE REFERENCE: P-2762-US1
         11 <140> CURRENT APPLICATION NUMBER: 09/449,817
12 <141> CURRENT FILING DATE: 1999-11-26
         14 <160> NUMBER OF SEQ ID NOS: 4
         16 <170> SOFTWARE: PatentIn Ver. 2.1
                                             mardatory number adestriped and reprove seeded,

mardatory number adestriped and reprove seeded,

personal seeded, actaged aggagates actaged aggaged aggaged actaged aggaged actaged aggaged actaged aggaged aggaged aggaged actaged aggaged aggaged aggaged aggaged aggaged actaged aggaged actaged aggaged aggaged aggaged aggaged actaged aggaged actaged aggaged aggaged actaged aggaged aggaged actaged aggaged aggaged actaged aggaged a
         18 <210> SEQ ID NO: 1
         19 <211> LENGTH: 733
         20 212> TYPE: DNA
W--> 22 (213) ORGANISM:
22 <400> SEQUENCE: 1
         23 tacgacttgg tcaacctggc agtcaagcag gtcttggcca acaagagcca cctctgggtg 60
24 gaggaggagg tctggcggat ggagatctac ctctccctgg gagtgctggc cctcggcacg 120
         25 ttgtccctgc tggccgtgac ctcactgccg tccattgcaa actcgctcaa ctggagggag 180
         26 ttcagetteg ttcagteete actgggettt gtggeeeteg tgetgageae actgeaeaeg 240
         27 etcacetacg getggaceeg egeettegaa gagacegeta caagttetae etgeeteeca 300
         28 cetteacget cacgetgetg gtgecetgeg tegteatect ggecaaagee etgtttetee 360
         29 tgccctgcat cagccgcaga ctccccagga tccggagaag ctgggagagg gagagcacca 420
         30 tcaagttcac getgeecaca gaceaegeee tggeegagaa gaegageeae gtatgaggt 480
         31 cctgccctgg gctctggacc ccgggcacac gagggacggt gccctgagcc cgttaggtti 540
         32 tetttettg gtggtgcaaa gtggtataac tgtgtgcaaa taggaggttt gaggtccaaa (
33 teettgggac teaaatgtat gcatgactat teagaatgat atacacacat atgtgtatat 660
         34 gtatttacat atattccaca tatataacag gatttgcaat tatacatagc tagctaaaaa 720
         35 aaaaaaaaaa aaa
         38 <210> SEQ ID NO: 2
         39 <211> LENGTH: 1467
                                                       same enn
         40 <212> TYPE: DNA
W--> 42 (213 > ORGANISM:
         42 <400> SEQUENCE: 2
         43 atgtccgggg agatggacaa accgctcatc agtcgccgct tggtggacag tgatggcagt 60
         44 ctggctgagg tccccaaagga ggctcccaaa gtgggcatcc tgggcagcgg ggattttgcc 120
         45 cggtccctgg ccacacgcct ggtgggctct ggcttctttg tggtggtggg aagccgtaac 180
         46 cccaaacgca ctgccggcct cttcccctcc ttagcccaag tgactttcca ggaggaggcc 240
         47 gtgagetete cagaggteat etttgtggee gtgtteeggg ageactacte etcaetgtge 300
48 agtettgetg accagttgge tggeaagate etagtggatg taagcaacce caeggagaag 360
          49 gagogtotto agoacogoca gtogaacgoo gagtacotgg cotocotott cootgootgo 420
          50 actgtggtca aggccttcaa cgtcatctct gcatgggccc tacaggctgg cccaagggat 480
          51 gggaacaggc aggtgctcat ctgcggtgac cagctggaag ccaagcacac cgtctcagag 540
          52 atggcgcgcg ccatgggttt caccccactg gacatgggat ccctggcctc agcgagggag 600
          53 gtagaggcca tacccctgcg cctccttcca tcctggaagg tgcccaccct cctggccctg 660
          54 gggctaagca cacaaagcta tgcctacaac ttcatccggg acgttctaca gccgtacatc 720
          55 cggaaagatg agaacaagtt ctacaagatg cccctgtctg tggtcaacac cacgataccc 780
          56 tgtgtggett acgtgctget gtecetggtt tacetgeetg gtgtgetgge agetgeeett 840
          57 cagetgagga gggggaccaa gtaccagege tteccagaet ggetggacca ttggetgeag 900
```

RAW SEQUENCE LISTING

DATE: 07/17/2000

7/17/00

RAW SEQUENCE LISTING DATE: 07/17/2000 PATENT APPLICATION: US/09/449,817 TIME: 11:26:30

Input Set : A:\Seqidt-1.txt

Output Set: N:\CRF3\07172000\I449817.raw

```
58 caccgcaage agateggget acteagettt tittegeea tgetgeaege tetetacage 960
     59 ttetgeetge egetgegeeg eteceacege tatgatetgg teaacetgge tgtgaageag 1020
     60 gtcctggcca acaagagccg cctctgggtt gaggaagaag tctggcggat ggagatatac 1080
     61 etgtecetgg gtgtgetgge tetgggeatg etgteaetge tggeggttae etegatecet 1140
     62 tecattgeaa acteacteaa etggaaggag tteagetttg tgeagteeae getgggette 1200
    63 gtggccctga tgctgagcac aatgcacacc ctcacctacg gctggacccg tgcttttgag 1260 64 gaaaaccact acaagttcta cctgccaccc acattcacgc tcacgetgct cctgccctgt 1320
     66 atccgcaggg gctgggagag ggatggtgcc gtcaagttca tgctgcccgc tggccacaca 1440
     67 cagggggaga aaacaagcca cgtgtga
     71 <210> SEQ ID NO: 3
     72 <211> LENGTH: 3884
     73 <212> TYPE: DNA
W--> 75 (213) ORGANISM:
75 <400> SEQUENCE: 3
                             some
     76 geggeegeea teateaataa tataeettat tttggattga ageeaatatg ataatgaggg 60
     77 ggtggagttt gtgacgtggc gcggggcgtg ggaacggggc gggtgacgta gtagtgtggc 120
```

78 ggaagtgtga tgttgcaagt gtggcggaac acatgtaagc gacggatgtg gcaaaagtga 180 79 cgtttttggt gtgcgccggt gtacacagga agtgacaatt ttcgcgcggt tttaggcgga 240 80 tgttgtagta aatttgggcg taaccgagta agatttggcc attttcgcgg gaaaactgaa 300 81 taagaggaag tgaaatetga ataattttgt gttactcata gegegtaata tttgtctagg 360 82 gccgcgggga ctttgaccgt ttacgtggag actcgcccag ggcgcgcccc gatgtacggg 420 83 ccagatatac gcgtatctga ggggactagg gtgtgtttag gcgaaaagcg gggcttcggt 480 84 tgtacgcggt taggagtccc ctcaggatat agtagtttcg cttttgcata gggaggggga 540 85 aatgtagtet tatgeaatae tettgtagte ttgeaacatg gtaacgatga gttageaaca 600 86 tgccttacaa ggagagaaaa agcaccgtgc atgccgattg gtggaagtaa ggtggtacga 660 87 togtgootta ttaggaaggo aacagaoggg totgacatgg attggaogaa coactgaatt 720 88 ccgcattgca gagatattgt atttaagtgc ctagctcgat acaataaacg ccatttgacc 780 89 atteaceaea ttggtgtgea ecteeggeee tggeeaetet etteegeate getgtetgeg 840 90 ggggccaget gttgggctcg cggttgagga caaactette geggtettte cagtactett 900 91 ggateggaaa eeegteggee teegaacggt acteegeege egagggaeet gagegagtee 960 92 geategaceg gateggaaaa cetetegaga aaggegtgta accagteaca gtegetetag 1020 93 aactagtgga tecceeggge tgeaggaatt egataatteg geacgagget geegaggeae 1080 94 tgtgatgtcc ggggagatgg acaaaccgct catcagtcgc cgcttggtgg acagtgatgg 1140 95 cagtetgget gaggteecca aggaggetee caaagtggge atcetgggea geggggattt 1200 96 tgcccggtcc ctggccacac gcctggtggg ctctggcttc tttgtggtgg tgggaagccg 1260 97 taaccccaaa cgcactgccg gcctcttccc ctccttagcc caagtgactt tccaggagga 1320 98 ggccgtgagc tctccagagg tcatctttgt ggccgtgttc cgggagcact actcctcact 1380 99 gtgcagtctt gctgaccagt tggctggcaa gatcctagtg gatgtaagca accccacgga 1440 100 gaaggagegt etteageace geeagtegaa egeegagtae etggeeteee tetteeetge 1500 101 etgcactgtg gtcaaggeet teaaegteat etetgcatgg geeetacagg etggeeeaag 1560 102 ggatgggaac aggcaggtgc tcatctgcgg tgaccagctg gaagccaagc acaccgtctc 1620 103 agagatggcg cgcgccatgg gtttcacccc actggacatg ggatccctgg cctcagcgag 1680 104 ggaggtagag gccatacccc tgcgcctcct tccatcctgg aaggtgccca ccctcctggc 1740. 105 cctggggcta agcacacaaa gctatgccta caacttcatc cgggacgttc tacagccgta 1800 106 catcoggaaa gatgagaaca agttotacaa gatgoocotg totgtggtoa acaccacgat 1860 107 accetytyty gettacytyc tyctytecet gytttacety cetygtytyc tygcayetyc 1920 108 cetteagetg aggagggga ceaagtacea gegetteeca gaetggetgg accattgget 1980 109 gcagcaccgc aagcagateg ggctacteag cttttttttc gccatgctgc acgeteteta 2040

RECEIVED

JUL 28 2000

TECH CENTER 1600/2800

DATE: 07/17/2000

PATENT APPLICATION: US/09/449,817 TIME: 11:26:30 Input Set : A:\Seqidt-1.txt Output Set: N:\CRF3\07172000\1449817.raw 110 cagettetge etgeegetge geegeteeca eegetatgat etggteaace tggetgtgaa 2100 111 gcaggtcctg gccaacaaga gccgcctctg ggttgaggaa gaagtctggc ggatggagat 2160 112 atacctgtcc ctgggtgtgc tggctctggg catgctgtca ctgctggcgg ttacctcgat 2220 113 cccttccatt gcaaactcac tcaactggaa ggagttcagc tttgtgcagt ccacgctggg 2280 114 cttcgtggcc ctgatgctga gcacaatgca caccctcacc tacggctgga cccgtgcttt 2340 115 tgaggaaaac cactacaagt tctacctgcc acccacattc acgctcacgc tgctcctgcc 2400 116 ctgtgtcatc atcctggcca agggcctctt cotcctgccc tgcctcagcc acagactcac 2460 117 caaqateege aggggetggg agagggatgg tgeegteaag tteatgetge eegetggeea 2520 118 cacacagggg gagaaaacaa gccacgtgtg aggccctgga aatggagaca ggcacagctt 2580 119 qtqqqqccc tqqqctqqqt tcqqqtctct tttctqqqat ggtatatgcg tgggtggccg 2640 120 aggtctgaat ttctgggatg caggtgtatg ccgagatact cagaatggcg taccacacat 2700 121 gcgataagta ctcacatata tttcatatat aataggattt actattattc ttagttaaaa 2760 122 aaaaatagtg ggtccttata tttcaactta tgcagggtcc ctatatttca acttgagcat 2820 123 ttcagagcaa atgccacaca ttaaacagca gatcccaccc ttgtggtagc tgcagagaca 2880 124 gacagaaact totggttatg agagagactg tattttgttg gattotacct ttaatccccg 2940 125 ttetetacgt teecetgtta gecacatett aacgttggtg cagagetggg acaagagetg 3000 126 gctctggtgc agcctccccc atcccagggc taggaaacaa gcctctgatg aacagaggga 3060 127 ccaggtctgg accetectge tecegettee etgggetega gtggggagge teagegggat 3120 128 cccccgcaat ctgtgcagga gttttcacag gtctgtcctt tcttccggga gcggtctgaa 3180 129 geggececat etgatectag etgageegag attgtteece acteeetgaa agteeagagt 3240 130 caccgtggag cctgcaaatt gctccttctg cgaaggtgtg aagtcaccgt ctcaccagag 3300 131 ccattaacga acctgatett cagaagaage ataattgttt eccetecatt aagttggtgg 3360 132 tgaccetett taaaccactg tgeetteteg cettteecat cactaatttg ggeateteea 3420 133 tggagtggac tcttgtcggg gcagttcagg ggggagggaa gcattagaga ttgcggagaa 3480 134 taaccatcga agcetcectt ggatgtteec aggegtgeet tcattaaatt ggtcectaat 3540 135 gagaatgaca ggggacccct gttgcctgta tgcagagaac cagccttctg agcacccagg 3600 136 aaacacagtg geceeacgee etteaggggg gteeeacgte ecettteeea tgettttgee 3660 137 tecetecete ceggitacaa teaaceataa aagtetgeaa atattgitti tigaattate 3720 138 aagettateg atacegtega aaettgttta ttgcagetta taatggttac aaataaagea 3780 139 atagcatcac aaatttcaca aataaagcat ttttttcact gcattctagt tgtggtttgt 3840 140 ccaaactcat caatgtatct tatcatgtct ggatccgacc tcgg 3884 143 <210> SEQ ID NO: 4 144 <211> LENGTH: 32166 145 <212> TYPE: DNA W--> 147 (213> ORGANISM: same 147 <400> SEQUENCE: 4 148 atctggaagg tgctgaggta cgatgagacc cgcaccaggt gcagaccetg cgagtgtggc 60 149 ggtaaacata ttaggaacca gcctgtgatg ctggatgtga ccgaggagct gaggcccgat 120 150 cacttggtgc tggcctgcac ccgcgctgag tttggctcta gcgatgaaga tacagattga 180 151 ggtactgaaa tgtgtgggcg tggcttaagg gtgggaaaga atatataagg tgggggtctt 240 152 atqtaqtttt qtatctgttt tgcagcagcc gccgccgcca tgagcaccaa ctcgtttgat 300 153 ggaagcattg tgagctcata tttgacaacg cgcatgcccc catgggccgg ggtgcgtcag 360 154 aatgtgatgg getecageat tgatggtege eeegteetge eegcaaacte tactacettg 420 155 acctacgaga ccgtgtctgg aacgccgttg gagactgcag cctccgccgc cgcttcagcc 480 156 gctgcagcca ccgccgcgg gattgtgact gactttgctt tcctgagccc gcttgcaagc 540
157 agtgcagctt cccgtccatc cgcccgcgat gacaagttga cggctctttt ggcacaattg 600

158 gattetttga ecegggaaet taatgtegtt teteageage tgttggatet gegeeageag 660 159 gtttetgeee tgaaggette eteeeeteee aatgeggttt aaaacataaa taaaaaeea 720 160 gaetetgttt ggatttggat eaageaagtg tettgetgte tttatttagg ggttttgege 780

RAW SEQUENCE LISTING

71-7100

RAW SEQUENCE LISTING DATE: 07/17/2000 PATENT APPLICATION: US/09/449,817 TIME: 11:26:30

Input Set : A:\Seqidt-1.txt

Output Set: N:\CRF3\07172000\1449817.raw

161 gcgcggtagg cccgggacca gcggtctcgg tcgttgaggg tcctgtgtat tttttccagg 840 162 acgtggtaaa ggtgactctg gatgttcaga tacatgggca taagcccgtc tctggggtgg 900 163 aggtagcacc actgcagagc ttcatgctgc ggggtggtgt tgtagatgat ccagtcgtag 960 164 caggageget gggegtggtg cetaaaaatg tettteagta geaagetgat tgeeagggge 1020 165 aggcccttgg tgtaagtgtt tacaaagcgg ttaagctggg atgggtgcat acgtggggat 1080 166 atgagatgca tettggactg tatttttagg ttggetatgt teccagecat atcecteegg 1140 167 ggattcatgt tgtgcagaac caccageaca gtgtatccgg tgcacttggg aaatttgtca 1200 168 tgtagettag aaggaaatge gtggaagaac ttggagaege eettgtgaee tecaagattt 1260 169 tocatgcatt cgtocataat gatggcaatg ggccacggg cggcggcgt ggcgaagata 1320 170 tttotgggat cactaacgto atagttgtgt tocaggatga gatcgtoata ggccatttt 1380 171 acaaagcgcg ggcggaggt gccagactgc ggtataatgg ttocatccgg cccaggggcg 1440 172 tagttaccct cacagatttg catttcccac gctttgagtt cagatggggg gatcatgtct 1500 173 acctgcgggg cgatgaagaa aacggtttcc ggggtagggg agatcagctg ggaagaaagc 1560 174 aggttcctga gcagctgcga cttaccgcag ccggtgggcc cgtaaatcac acctattacc 1620 175 gggtgcaact ggtagttaag agagctgcag ctgccgtcat ccctgagcag gggggccact 1680 176 tegitaagea tgteeetgae tegeatgitt teeetgaeea aateegeeag aaggegeteg 1740 177 ccgcccagcg atagcagttc ttgcaaggaa gcaaagtttt tcaacggttt gagaccgtcc 1800 178 gccgtaggca tgcttttgag cgtttgacca agcagttcca ggcggtccca cagctcggtc 1860 179 acctgeteta eggeateteg atecageata teteetegtt tegegggttg gggeggettt 1920 180 cgctgtacgg cagtagtcgg tgctcgtcca gacgggccag ggtcatgtct ttccacgggc 1980 181 gcagggtcct cgtcagcgta gtctgggtca cggtgaaggg gtgcgctccg ggctgcgcg 2040 182 tggccagggt gcgcttgagg ctggtcctgc tggtgctgaa gcgctgccgg tcttcgccct 2100 183 gcgcgtcggc caggtagcat ttgaccatgg tgtcatagtc cagcccctcc gcggcgtggc 2160 184 ccttggcgcg cagcttgccc ttggaggagg cgccgcacga ggggcagtgc agacttttga 2220 185 gggcgtagag cttgggcgcg agaaataccg attccgggga gtaggcatcc gcgccgcagg 2280 186 ccccgcagac ggtctcgcat tccacgagcc aggtgagctc tggccgttcg gggtcaaaaa 2340 187 ccaggtttcc cccatgcttt ttgatgcgtt tcttacctct ggtttccatg agccggtgtc 2400 188 cacgctcggt gacgaaaagg ctgtccgtgt ccccgtatac agacttgaga ggcctgtcct 2460 189 cgagcggtgt tccgcggtcc tcctcgtata gaaactcgga ccactctgag acaaaggctc 2520 190 gcgtccaggc cagcacgaag gaggctaagt gggaggggta gcggtcgttg tccactaggg 2580 191 qqtccactcq ctccaqqqtq tqaaqacaca tqtcqccctc ttcqqcatca aggaaggtga 2640 192 ttggtttgta ggtgtaggcc acgtgaccgg gtgttcctga aggggggcta taaaaggggg 2700 193 tgggggcgcg ttcgtcctca ctctctccg catcgctgtc tgcgagggcc agctgttggg 2760 194 gtgagtactc cctctgaaaa gcgggcatga cttctgcgct aagattgtca gtttccaaaa 2820 195 acgaggagga tttgatattc acctggcccg cggtgatgcc tttgagggtg gccgcatcca 2880 196 totggtoaga aaagacaato tttttgttgt caagettggt ggcaaacgac ccgtagaggg 2940 197 cgttggacag caacttggcg atggagcgca gggtttggtt tttgtcgcga tcggcgcgct 3000 198 ccttggccgc gatgtttagc tgcacgtatt cgcgcgcaac gcaccgccat tcgggaaaga 3060 199 cggtggtgcg ctcgtcgggc accaggtgca cgcgccaacc gcggttgtgc agggtgacaa 3120 200 ggtcaacgct ggtggctacc tctccgcgta ggcgctcgtt ggtccagcag aggcggccgc 3180 201 cettgegega geagaatgge ggtaggggt etagetgegt etegteeggg gggtetgegt 3240 202 ccacggtaaa gaccccgggc agcaggcgcg cgtcgaagta gtctatcttg catccttgca 3300 203 agtotagogo otgotgocat gogoggogg caagogogog otogtatggg ttgagtgggg 3360 204 gaccccatgg catggggtgg gtgagcgcgg aggcgtacat gccgcaaatg tcgtaaacgt 3420 205 agaggggete tetgagtatt ccaagatatg tagggtagea tettecaceg eggatgetgg 3480 206 cgcgcacgta atcgtatagt tcgtgcgagg gagcgaggag gtcgggaccg aggttgctac 3540 207 gggcgggctg ctctgctcgg aagactatct gcctgaagat ggcatgtgag ttggatgata 3600 208 tggttggacg ctggaagacg ttgaagctgg cgtctgtgag acctaccgcg tcacgcacga 3660 209 aggaggegta ggagtegege agettgttga eeagetegge ggtgaeetge aegtetaggg 3720

DATE: 07/17/2000 TIME: 11:26:30 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/449,817

Input Set : A:\Seqidt-1.txt
Output Set: N:\CRF3\07172000\I449817.raw

210	cqcagtagtc	cagggtttcc	ttgatgatgt	catacttatc	ctgtcccttt	tttttccaca	3780
211	actcacaatt	gaggacaaac	tcttcqcqqt	ctttccagta	ctcttggatc	ggaaacccgt	3840
212.	cggcctccga	acqqtaaqaq	cctagcatgt.	agaactggtt	gacggcctgg	taggcgcagc	3900
213	atcccttttc	tacqqqtaqc	gcgtatgcct	gegeggeett	ccggagcgag	gtgtgggtga	3960
214	gcgcaaaggt	gtccctgacc	atgactttga	ggtactggta	tttgaagtca	gtgtcgtcgc	4020
215	atccgccctg	ctcccagagc	aaaaagtccg	tgcgcttttt	ggaacgcgga	tttggcaggg	4080
216	cgaaggtgac	atcqttgaag	agtatctttc	ccgcgcgagg	cataaagttg	cgtgtgatgc	4140
217	ggaagggtcc	cggcacctcg	gaacggttgt	taattacctg	ggcggcgagc	acgatctcgt	4200
218	caaaqccqtt	gatgttgtgg	cccacaatgt	aaagttccaa	gaagcgcggg	atgcccttga	4260
219	tggaaggcaa	ttttttaagt	tcctcqtagg	tgagctcttc	aggggagctg	agcccgtgct	4320
220	ctgaaagggc	ccaqtctqca	agatgagggt	tggaagcgac	gaatgagctc	cacaggtcac	4380
221	gggccattag	catttqcaqq	tggtcgcgaa	aggtcctaaa	ctggcgacct	atggccattt	4440
222	tttctqqqqt	gatgcagtag	aaggtaagcg	ggtcttgttc	ccagcggtcc	catccaaggt	4500
223	tegeggetag	gtctcgcgcg	gcagtcacta	gaggeteate	tccgccgaac	ttcatgacca	4560
224	gcatgaaggg	cacqaqctqc	ttcccaaagg	cccccatcca	agtataggtc	tctacatcgt	4620
225	aggtgacaaa	gagacgeteg	gtgcgaggat	gcgagccgat	cgggaagaac	tggatctccc	4680
226	gccaccaatt	ggaggagtgg	ctattgatgt	ggtgaaagta	gaagtccctg	cgacgggccg	4740
227	aacactcqtq	ctaactttta	taaaaacgtg	cgcagtactg	gcagcggtgc	acgggctgta	4800
228	catectgcac	gaggttgacc	tgacgaccgc	gcacaaggaa	gcagagtggg	aatttgagcc	4860
229	cctcacctaa	cagatttagc	taataatett	ctacttcggc	tgcttgtcct	tgaccgtctg	4920
230	gctgctcgag	gggagttacg	gtggatcgga	ccaccacgcc	gcgcgagccc	aaagtccaga	4980
231	tatccacaca	caacaatcaa	agcttgatga	caacatcgcg	cagatgggag	ctgtccatgg	5040
232	tetggagete	ccacaacatc	aggtcaggcg	ggageteetg	caggtttacc	tcgcatagac	5100
233	gggtcagggc	gcgggctaga	tccaggtgat	acctaatttc	caggggctgg	ttggtggcgg	5160
234	catcaatage	ttgcaagagg	ccgcatcccc	geggegegae	tacggtaccg	egeggeggge	5220
235	aataaaccac	gagagtatcc	ttggatgatg	catctaaaag	cggtgacgcg	ggcgagcccc	5280
236	cagaggtagg	gagageteeg	gacccqccgg	gagaggggc	aggggcacgt	cggcgccgcg	5340
237	cacaaacaaa	agctggtgct	gcgcgcgtag	gttgctggcg	aacgcgacga	cgcggcggtt	5400
238	gateteetga	atctggcgcc	tctgcgtgaa	gacgacgggc	ccggtgagct	tgagcctgaa	5460
239	agagagttcg	acagaatcaa	tttcqqtqtc	gttgacggcg	gcctggcgca	aaatctcctg	5520
240	cacqtctcct	gagttgtctt	gataggcgat	ctcggccatg	aactgctcga	tctcttcctc	5580
241	ctggagatct	ccgcgtccgg	ctcgctccac	ggtggcggcg	aggtcgttgg	aaatgcgggc	5640
242	catgagetge	gagaaggcgt	tgaggcctcc	ctcgttccag	acgcggctgt	agaccacgcc	5700
243	cccttcqqca	tegegggege	gcatgaccac	ctgcgcgaga	ttgagctcca	cgtgccgggc	5760
244	gaagacggcg	tagtttcgca	ggcgctgaaa	gaggtagttg	agggtggtgg	cggtgtgttc	5820
245	taccacaaaa	aaqtacataa	cccagcgtcg	caacgtggat	tcgttgatat	cccccaaggc	5880
246	ctcaaqqcqc	tccatggcct	cgtagaagtc	cacggcgaag	ttgaaaaact	gggagttgcg	5940
247	caccaacaca	gttaactcct	cctccagaag	acggatgage	teggegaeag	tgtcgcgcac	6000
248	ctcqcqctca	aaggctacag	gggcctcttc	ttcttcttca	atctcctctt	ccataagggc	6060
249	ctccccttct	tcttcttctg	gcggcggtgg	gggaggggg	acacggcggc	gacgacggcg	6120
250	caccgggagg	cggtcgacaa	agcgctcgat	catctccccg	cggcgacggc	gcatggtctc	6180
251	ggtgacggcg	eggeegttet	cgcgggggcg	cagttggaag	acgccgcccg	tcatgtcccg	6240
252	'qttatqqqtt	qqcqqqqqqc	tgccatgcgg	cagggatacg	gcgctaacga	tgcatctcaa	6300
253	caattgttgt	gtaggtactc	cgccgccgag	ggacctgagc	gagtccgcat	cgaccggatc	6360
254	ggaaaacctc	tcgagaaagg	cgtctaacca	gtcacagtcg	caaggtaggc	tgagcaccgt	6420
255	aacaaacaac	agcgggcggc	ggtcggggtt	gtttctggcg	gaggtgctgc	tgatgatgta	6480
256	attaaaqtaq	gcggtcttga	gacggcggat	ggtcgacaga	agcaccatgt	ccttgggtcc	6540
257	ggcctgctga	atgcgcaggc	ggtcggccat	gccccaggct	tcgttttgac	ateggegeag	6600
258	gtctttgtag	tagtcttgca	tgagcctttc	taccggcact	tcttcttctc	cttcctcttg	6660

VERIFICATION SUMMARY

DATE: 07/17/2000 TIME: 11:26:31

PATENT APPLICATION: US/09/449,817

Input Set : A:\Seqidt-1.txt
Output Set: N:\CRF3\07172000\1449817.raw

L:22 M:282 W: Numeric Field Identifier Missing, <213> is required. L:42 M:282 W: Numeric Field Identifier Missing, <213> is required. L:75 M:282 W: Numeric Field Identifier Missing, <213> is required. L:147 M:282 W: Numeric Field Identifier Missing, <213> is required.